



Wednesday, September 13, 2017

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: SEPTEMBER NEPDES
Sample ID#s: BY95910

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 13, 2017

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G9085

Custody Information

Collected by: KG
Received by: B
Analyzed by: see "By" below

Date

09/06/17
09/06/17

Time

7:00
15:53

Laboratory Data

SDG ID: GBY95910
Phoenix ID: BY95910

Project ID: SEPTEMBER NEPDES
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Copper	0.031	0.003	mg/L	1	09/08/17	MA	E200.7
B.O.D./5 day	< 4.0	4.0	mg/L	2	09/06/17 16:15	RVM/RM	SM5210B-01,-11
C.O.D.	198	10	mg/L	1	09/07/17	MSF	SM5220D-97,-11
Ammonia as Nitrogen	0.55	0.25	mg/L	5	09/12/17	WHM	E350.1
Nitrite-N	0.027	0.010	mg/L	1	09/06/17 21:39	MI	E353.2
Nitrate-N	21.2	0.40	mg/L	20	09/06/17 21:41	MI	E353.2
Phenolics	< 0.015	0.015	mg/L	1	09/07/17	BS	E420.4
Nitrogen Tot Kjeldahl	12.0	0.50	mg/L	5	09/12/17	WHM	E351.1
Phosphorus, as P	4.16	0.050	mg/L	5	09/12/17	JR	SM4500PE-99,-11
Total Suspended Solids	11	5.0	mg/L	1	09/08/17	KDB/EG	SM2540D-97,-11
Total Metals Digestion	Completed				09/07/17	AG	

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

September 13, 2017

Reviewed and Released by: Deb Lawrie, Project Manager



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QA/QC Report

September 13, 2017

QA/QC Data

SDG I.D.: GBY95910

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 400591 (mg/L), QC Sample No: BY95901 (BY95910)													
<u>ICP Metals - Aqueous</u>													
Copper	BRL	0.0025	0.082	0.0877	6.70	98.1			97.0			75 - 125	20



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QA/QC Report

September 13, 2017

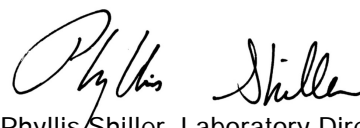
QA/QC Data

SDG I.D.: GBY95910

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 400505 (mg/L), QC Sample No: BY94196 (BY95910)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	102			94.5			90 - 110	20
QA/QC Batch 400514 (mg/L), QC Sample No: BY95479 (BY95910)													
C.O.D.	BRL	10	27	25	NC	102			98.2			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 400701 (mg/L), QC Sample No: BY95718 (BY95910)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	92.0						85 - 115	
QA/QC Batch 400483 (mg/L), QC Sample No: BY95905 (BY95910)													
Nitrate-N	BRL	0.02	<0.02	<0.02	NC	105			103			90 - 110	20
Nitrite-N	BRL	0.01	0.013	0.02	NC	101			105			90 - 110	20
QA/QC Batch 400957 (mg/L), QC Sample No: BY95907 (BY95910)													
Ammonia as Nitrogen	BRL	0.05	0.22	0.23	NC	106			108			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	2.33	2.65	12.9	96.3			116			85 - 115	20
QA/QC Batch 400985 (mg/L), QC Sample No: BY95910 (BY95910)													
Phosphorus, as P	BRL	0.01	4.16	4.21	1.20	101			NC			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													
QA/QC Batch 400448 (mg/L), QC Sample No: BY96395 (BY95910)													
B.O.D./5 day	BRL	2.0	<4.0	<4.0	NC	89.0			89.8			70 - 130	20
B.O.D./5 day GGA CBOD						89.9						84 - 115	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
September 13, 2017

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Criteria: None

State: MA

Sample Criteria Exceedances Report

GBY95910 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

September 13, 2017

SDG I.D.: GBY95910

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

